

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-267741

(43)Date of publication of application : 17.10.1995

(51)Int.Cl.

C04B 35/622

C04B 33/28

C04B 35/632

(21)Application number : 06-082520

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(22)Date of filing : 29.03.1994

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(54) COMPOSITION FOR SLIP CASTING

(57)Abstract:

PURPOSE: To obtain a compsn. for slip casting less liable to a change of viscosity or the inclusion of bubbles at the time of molding by mixing ceramic powder with an aq. polyurethane emulsion as a binder.

CONSTITUTION: Ceramic powder such as silicon nitride powder is mixed with an aq. polyurethane emulsion as a binder to produce the objective compsn. for slip casting. The proper amt. of the emulsion used is 0.1-2 pts.wt. per 100 pts.wt. of the ceramic powder. The compsn. may further be blended with a sintering aid such as Y2O3, a dispersant, if necessary. The compsn. is molded by slip casting to produce a molding. Since the viscosity of the compsn. is not dependent on the amt. of the binder added, slip is easily produced and maintained, bubbles are not included at the time of molding and a high quality molding is obtd. High dimensional precision is attained because of a low green shrinkage.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]